

Sequence Listing

JC17 Rec'd PCT/PTO 20 JUN 2005

<110> Universität Leipzig
 <120> Method and Means for Determining Specific Conditions or Changes in
 the Uterine Epithelium and in the Epithelium of other Organs
 <130> 00401P0004WOUS
 <150> DE10260556.4
 <151> 2002-12-21
 <150> DE10325637.7
 <151> 2003-06-06
 <150> DE10325636.9
 <151> 2003-06-06

 <160> 18

 <210> 1
 <211> 20
 <212> DNA
 <213> artificial
 <220>
 <223> Primer 1 (β hCG gesamt)

 <301> Lindholm-Miller A.K. Labenz C.J., Ramey J., Bedows E., Ruddon R.W.
 <302> Human Chorionic Gonadotropin- β -Gene Expression in First Trimester
 Placenta
 <303> Endocrinology
 <304> 138
 <305> 12
 <306> 5459-5465
 <307> 1997

 <400>
 tcacttcacc gtggtctccg 20

 <210> 2
 <211> 20
 <212> DNA
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 <220>
 <223> Primer 2 (β hCG gesamt)

 <301> Lindholm-Miller A.K. Labenz C.J., Ramey J., Bedows E., Ruddon R.W.
 <302> Human Chorionic Gonadotropin- β -Gene Expression in First Trimester
 Placenta
 <303> Endocrinology
 <304> 138
 <305> 12
 <306> 5459-5465
 <307> 1997

 <400> 2
 tgcagcacgc gggatcatggt 20

 <210> 3
 <211> 23
 <212> DNA
 <213> artificial
 <220>
 <223> Primer 3 (β hCG β 7, β 6, β 6e)

 <400> 3
 cactgagggg agaggactgg ggt 23

<210> 4
 <211> 23
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 <213> artificial
 <220>
 <223> Primer 4 (β hCG β 5, β 8, β 3)

<400> 4
 cagtgaagg agagggctgg ggc

23

<210> 5
 <211> 861
 <212> DNA
 <213> human
 <220>
 <223> β hCG β 7 cDNA-Sequenz

<400>5
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 aggccttcct acaccctact ctctgtgcct ccagcctcga ctagtcccta gcactcgacg 120
 actgagtctc agaggtcact tcaccgtggt ctccgcctca tccttggcgc tagaccactg 180
 aggggagagg actggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
 tctcgcccc cgaagggtta gtgtccagct cactccagca tcctacaacc tcctgggtggc 300
 cttgacgccc ccacaaaccc gaggtataaa gccagggtaca ccaggcaggg gacgcaccaa 360
 ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
 catccaagga gatgcttcgg ccacgggtgcc gccccatcaa tgccaccctg gctgtggaga 480
 aggagggctg ccccggtgtgc atcacctgca acaccaccat ctgtgccggc tactgcccc 540
 ccatgacccg cgtgctgcag ggggtcctgc cggccctgcc tcaggtggtg tgcaactacc 600
 gcgatgtgcg cttcgagtcc atccggctcc ctggctgccc gcgcggcgtg aaccccggtg 660
 tctcctacgc cgtggctctc agctgtcaat gtgcactctg ccgccgcagc accactgact 720
 gcgggggtcc caaggaccac cccttgacct gtgatgacct ccgcttccag gcctcctctt 780
 cctcaaaggc ccctccccc agccttccaa gtccatcccc actcccgggg ccctcggaca 840
 ccccgatcct ccacacaataa a 861

<210> 6
 <211> 861
 <212> DNA
 <213> human
 <220>
 <223> β hCG β 6 cDNA-Sequenz

<400>6
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 aggccttcct acaccctact ctctgtgcct ccagcctcga ctagtcccta acactcgacg 120
 actgagtctc agaggtcact tcaccgtggt ctccgcctca tccttggcgc tagaccactg 180
 aggggagagg actggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
 tctcgcccc cgaagggtta gtgtcgagct cactccagca tcctacaacc tcctgggtggc 300
 cttgccgccc ccacaaaccc gaggtatgaa gccagggtaca ccaggcaggg gacgcaccaa 360
 ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
 catccaagga gccacttcgg ccacgggtgcc gccccatcaa tgccaccctg gctgtggaga 480
 aggagggctg ccccggtgtgc atcacctgca acaccaccat ctgtgccggc tactgcccc 540
 ccatgacccg cgtgctgcag ggggtcctgc cggccctgcc tcaggtggtg tgcaactacc 600
 gcgatgtgcg cttcgagtcc atccggctcc ctggctgccc gcgcggcgtg aaccccggtg 660
 tctcctacgc cgtggctctc agctgtcaat gtgcactctg ccgccgcagc accactgact 720
 gcgggggtcc caaggaccac cccttgacct gtgatgacct ccgcttccag gcctcctctt 780
 cctcaaaggc ccctccccc agccttccaa gtccatcccc actcccgggg ccctcggaca 840
 ccccgatcct ccacacaataa a 861

<210> 7
 <211> 861
 <212> DNA
 <213> human
 <220>
 <223> β hCG β 6e cDNA-Sequenz

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actgagtcct agaggtcact tcaccgtggt ctccgcctca tccttggygc tagaccactg 180
aggggagagg actgggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
tctcgcccc cgaagggtta gtgtcsagct cactccagca tcctacaacc tcctgggtggc 300
cttgmcgccc ccacaamccc gaggtatraa gccaggtaga ccaggcaggg gacgcaccaa 360
ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
catccargga gmyrcttcgg ccacgggtgcc gccccatcaa tgccaccctg gctgtggaga 480
aggaggggtg ccccggtgtg atcacggtca acaccaccat ctgtgccggc tactgcccc 540
ccatgaccgg cgtgctgcag ggggtcctgc cggccctgcc tcagggtggtg tgcaactacc 600
gcgatgtgcg cttcgagtc atccggctcc ctggctgccc gcgcggcgtg aaccccggtg 660
tctcctacgc cgtggctctc agctgtcaat gtgcaactct cgcgcgcagc accactgact 720
gcgggggtcc caaggaccac cccttgacct gtgatgacct cgccttcag gcctcctctt 780
cctcaaaggc ccctcccccc agccttccaa gtccatcccg actcccgggg ccctcggaca 840
ccccgatcct ccacaataa a 861
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<210> 8
 <211> 20
 <212> DNA
 <213> artificial
 <220>
 <223> Primer 8 (β hCG β 5, β 8, β 3)

```
<400> 8
catgggcatc caaggagccg 20
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<210> 9
 <211> 20
 <212> DNA
 <213> artificial
 <220>
 <223> Primer 9 (β hCG β 6)

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<400> 9
catgggcatc caaggagcca 20
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<210> 10
 <211> 20
 <212> DNA
 <213> artificial
 <220>
 <223> Primer 10 (β hCG β 7, β 6e)

```
<400> 10
catgggcatc cagggatg 20
```

<210> 11
 <211> 17
 <212> DNA
 <213> artificial
 <220>
 <223> Primer 11 (Gesamt- β hCG)

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<400> 11
tcgggggtgtc cgagggc 17
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<210> 12
 <211> 20
 <212> DNA
 <213> artificial
 <220>
 <223> Primer 12 (ßhCG ß5, ß8, ß3)

<400> 12
 gatgaccccc gcttccagga 20

<210> 13
 <211> 20
 <212> DNA
 <213> artificial
 <220>
 <223> Primer 13 (ßhCG ß7, ß6)

<400> 13
 gatgaccccc cgttccaggc 20

<210> 14
 <211> 17
 <212> DNA
 <213> artificial
 <220>
 <223> Primer 14 (Gesamt-ßhCG)

<400> 14
 tcgggtcacg gcctcct 17

<210> 15
 <211> 22
 <212> DNA
 <213> artificial
 <220>
 <223> Primer 15 (ßhCG ß5, ß8, ß3)

<400> 15
 acggcctcct cctggctccc ag 22

<210> 16
 <211> 22
 <212> DNA
 <213> artificial
 <220>
 <223> Primer 16 (ßhCG ß7, ß6, ß6e)

<400> 16
 acggcctcct cctgggtccc aa 22

<210> 17
 <211>..165
 <212> PRT
 <213> human
 <220>
 <223> β hCG β 6eI (with Lys in Pos 2)

<400> 17
 Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Leu Ser Met Gly
 -20 -15 -10 -5
 Gly Thr Trp Ala Ser **Lys** Glu **Met** Leu Arg Pro Arg Cys Arg Pro Ile
 .. 1 5 10
 Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
 15 .. 20 25
 Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
 30 .. 35 40
 Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg
 45 .. 50 55 60
 Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val
 65 70 75
 Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu
 80 85 90
 Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu
 95 100 105
 Thr Cys Asp Asp Pro Arg Phe Gln **Ala** Ser Ser Ser Ser Lys Ala Pro
 110 115 120
 Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr
 125 130 135 140
 Pro Ile Leu Pro Gln
 145

<210> 18
 <211>..165
 <212> PRT
 <213> human
 <220>
 <223> β hCG β 6eII (with Arg in Pos 2)

<400> 18
 Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Leu Ser Met Gly
 -20 -15 -10 -5
 Gly Thr Trp Ala Ser **Arg** Glu **Met** Leu Arg Pro Arg Cys Arg Pro Ile
 .. 1 5 10
 Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
 15 .. 20 25
 Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
 30 .. 35 40

[illegible]

Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val
65 70 75

Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu
80 85 90

Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu
95 100 105

Thr Cys Asp Asp Pro Arg Phe Gln **Ala** Ser Ser Ser Ser Lys Ala Pro
110 115 120

Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr
125 130 135 140

Pro Ile Leu Pro Gln
145